L6 ANSWER 21 OF 40 CA COPYRIGHT 2006 ACS on STN
AN 134:45925 CA
ED Entered STN: 11 Jan 2001
TI Manufacture of high-strength **fly ash brick** by self-ignited **sintering**
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PA First Steel-Smelting Industry General Plant, Angang Industry Development Corp., Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 8 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
IC ICM C04B018-08
CC 58-6 (Cement, Concrete, and Related Building Materials)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1252393	A	20000510	CN 1998-114405	19981023
	CN 1083406	B	20020424		
PRAI	CN 1998-114405		19981023		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
CN 1252393	ICM	C04B018-08
	IPCI	C04B0018-08 [ICM,7]
	ECLA	C04B033/13W4B

AB The **brick** is composed of: **fly ash** 60-90, western bentonite 5-20, and aggregate 5-20 weight%. The **brick** is manufactured by: naturally dewatering the **fly ash** to **water** content ≤23%, smashing the western bentonite to ≤0.088 mm, blending the aggregate (diameter = 1-5 mm, and 2-4 mm > 50%); mixing all raw materials; molding when **water** content <20% to obtain unburned **brick**; drying the unburned **brick** at >200° for > 20 h to **water** content <6%; and **sintering** at 1050-1200° for ≥24 h. Preferably, the flyash is high C **fly ash** with thermal value of 4000-5000 KJ/Kg; the aggregate is coal gangue slag or ironmaking slag; and the molding is carried out by extruding at ≥2.5 MPa. The **brick** has low cost and good performance.
ST **fly ash brick** self ignition **sintering**; bentonite aggregate **fly ash brick**
IT Drying